

BLADE FOR COMPRESSOR AND MANUFACTURE THEREOF

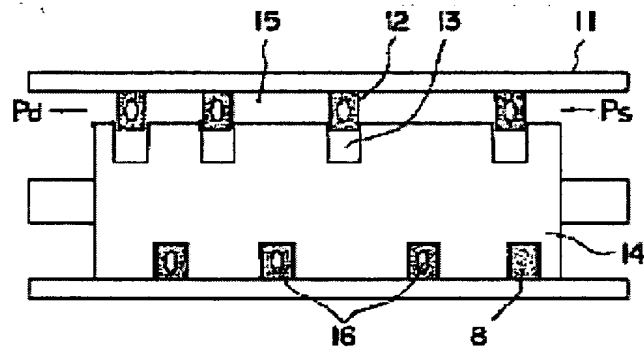
Patent number:	JP10061575
Publication date:	1998-03-03
Inventor:	KOYAMA SATOSHI; FUKUDA TETSUO
Applicant:	TOSHIBA CORP
Classification:	
- international:	F04C18/344; F04C18/344
- european:	
Application number:	JP19960220157 19960821
Priority number(s):	

Also published as:

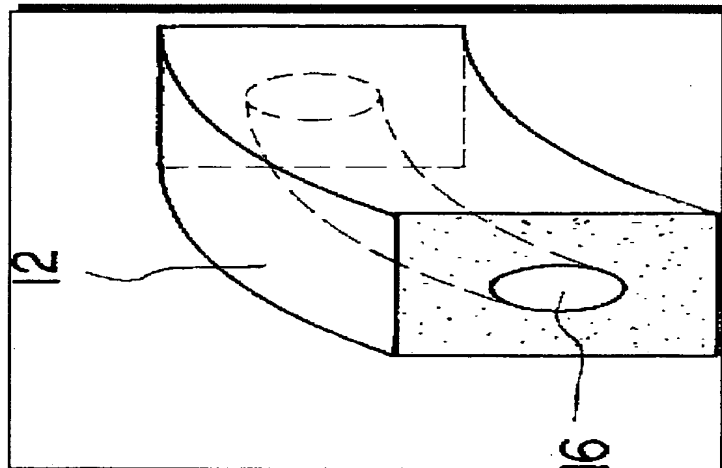
Abstract of JP10061575

PROBLEM TO BE SOLVED: To easily get a blade in/from a spiral groove, and to improve the sliding characteristic, abrasion resistance and sealing property by forming a space inside of a spiral blade made of fluoro-resin, which forms a compressing element of a compressor, along the spiral direction thereof, and communicating a part of this space with a compression chamber.

SOLUTION: A compressing element of a helical blade compressor is formed of a spiral blade 12, which is made of PTFE resin and which is arranged along the inner peripheral surface of a cylindrical cylinder 11, and a piston 14 having a spiral groove 13, in which the blade is to be fitted, and the pitch of the spiral groove 13 is formed so as to be gradually reduced from a coolant inlet side toward the coolant outlet side. In this case, the blade 12 is formed into the hollow structure having a square cross section having a space 16 inside thereof, and a part of the space 16 is opened to a high-pressure Pd side, and while formed into the closed-shape at a low-pressure Ps side. Flexibility is thereby increased by providing the space 16 in the blade 12, and the blade can be easily get in/from the spiral groove 13.



Data supplied from the *esp@cenet* database - Worldwide



ブレード	中空部面積率 (%)	コンブ成線係数
ブレード2	0	100
ブレード12	10	104
	20	109
	30	110
	40	105
	50	35

項目	グレード	コンパ放熱係数
実例	グレード12	117
比較例	グレード開放端型	106
	グレード2	100

